STIC Search Report
EIC 2100

USPTO

STIC Database Tracking Number: [illegible]

TO:	From:
Thomas M Ho Location: RND 2B15 Art Unit : 2134 Tuesday, May 10, 2005 Case Serial Number: 09/976050	Carol Wong Location: EIC 2100 RND 4A30 Phone: 272-3513 carol.wong@uspto.gov

Search Notes

Dear Examiner Ho,

Attached are the search results (from commercial databases) for your case.

Color tags mark the patents/articles which appear to be most relevant to the case. Due to the 3-hr. F&F time limitation, only patent files have been searched.

Please call if you have any questions or suggestions for additional terminology, or a different approach to searching the case.

Thanks,
Carol

sira
Search and Information Resources Administration

STIC EIC 2100 153021
Search Request Form

Today's Date: 5/10/05

What date would you like to use to limit the search?
Priority Date: Jan 2001 Other:

Name Thomas M

AU 2134 Examiner # 79972

Room # 2B15 Phone 571 272 3835

Serial # 09976050

Format for Search Results (Circle One):
PAPER DISK EMAIL

Where have you searched so far?
USP DWPI EPO JPO ACM IBM TDB
IEEE INSPEC SPI Other Google

Is this a "Fast & Focused" Search Request? (Circle One) YES NO
A "Fast & Focused" Search is completed in 2-3 hours (maximum). The search must be on a very specific topic and meet certain criteria. The criteria are posted in EIC2100 and on the EIC2100 NPL Web Page at http://ptoweb/patents/stic/stic-tc2100.htm.

What is the topic, novelty, motivation, utility, or other specific details defining the desired focus of this search? Please include the concepts, synonyms, keywords, acronyms, definitions, strategies, and anything else that helps to describe the topic. Please attach a copy of the abstract, background, brief summary, pertinent claims and any citations of relevant art you have found.

read info from one card
write to another card

SMART CARD COPIER
duplicate
save token encrypted data

copies or transfers a key from one smartcard to another.

Smartcard to Smartcard communication

Things I have found but are useless:

- ~~Xerox~~ or "copy machine" which use smartcards.
- Systems that use smartcard to authenticate a user to a system.
- Systems that prevent unauthorized copying of smartcards.

Smartcard is also known as an IC Card.

STIC Searcher C. Wing Phone 272-3573

Date picked up 5-10 Date Completed 5-10-05

Search and Information Resources Administration

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File 347:JAPIO Nov 1976-2005/Jan(Updated 050506)
         (c) 2005 JPO & JAPIO
File 350:Derwent WPIX 1963-2005/UD,UM &UP=200529
         (c) 2005  Thomson Derwent
File 344:Chinese Patents Abs Aug 1985-2004/May
         (c) 2004 European Patent Office
File 371:French Patents 1961-2002/BOPI 200209
         (c) 2002 INPI.  All rts. reserv.

Set      Items   Description
S1        5468   AU=NISHIMURA S?
S2         296   SMARTCARD? OR CHIPCARD? OR INTELLIGENTCARD? OR ICCARD? ? OR
                  MICROCHIPCARD? OR HYPRIDCARD? OR COMBICARD? OR MULTICARD?
S3           7   MEMOCARD? OR MEMORYCARD? OR UNIVERSALCARD?
S4          41   SMARTCHIP? OR SMART()CHIP? ?
S5         258   DIGITAL()(PURSE? ? OR WALLET? ?) OR ELECTRONIC()PURSE? ?
S6         415   ICC OR ICCS
S7      200250   CARD OR CARDS
S8        6696   (MULTIAPPLICATION? OR MULTI()APPLICATION? OR STORED()VALUE?
                  ? OR PREPAID OR PRE()PAID OR EFTS OR DUAL()INTERFACE?)(1W)S7
S9           1   ELECTRONIC()FUND? ?()(TRANSFERR? OR TRANSFER??? ?)(1W)S7
S10       3353   SINGLE(1W)(INLINE OR LINE)(1W)(MEMORY? OR MEMORIES)(1W)MOD-
                  ULE? ? OR SIM OR SIMS OR SIMM OR SIMMS
S11      37252   (SMART OR IC OR HYBRID OR INTEGRATED()CIRCUIT? OR INTELLIG-
                  ENT OR PROCESS?R? ? OR MULTI OR MICROPROCESS?R? ?)(1W)S7
S12       7291   (MICROCHIP OR CONTACTLESS OR MEMO OR UNIVERSAL OR CONTACT -
                  OR TWIN OR COMBI OR PROXIMITY OR VICINITY OR CHIP)(1W)S7
S13      17011   (TRANSACTION? ? OR MEMORY)(1W)S7
S14          0   TWINCARD? OR CONTACTCARD? OR TRANSACTIONCARD?
S15     247874   KEY? ? OR TOKEN? ?
S16       6923   (ENCRYPT? OR ENCIPHER? OR ENCYPHER? OR CRYPTO?)(1W)(DATA OR
                  INFORMATION)
S17       8109   CIPHER? OR CYPHER?
S18       7090   S15:S17(3N)(DUPLICAT? OR COPY? OR COPIES OR COPIED OR REPL-
                  ICAT? OR REPRODUC? OR REPLICA? OR RECREAT? OR RECONSTRUCT?)
S19       3663   S15:S17(3N)(RECORD? ? OR RECORDED OR RECORDING)
S20        134   S15:S17(3N)(REGENERAT? OR CLONE? ? OR CLONING)
S21          7   S15:S17(3N)RE()(PRODUC???? ? OR CREAT???? ? OR CONSTRUCT? -
                  OR GENERAT???? ?)
S22      14418   S15:S17(3N)(WRITE? ? OR WRITTEN OR WROTE OR SAVE? ? OR SAV-
                  ING OR STORAGE OR STORE OR STORES OR STORED OR STORING)
S23       5928   S15:S17(3N)(TRANSFERR? OR TRANSFER??? ? OR EXCHANG? OR UPL-
                  OAD? OR DOWNLOAD? OR LOAD??? ? OR SWAP? OR ACQUIR? OR ACQUISI-
                  TION?)
S24         22   S15:S17(3N)(EXPORT? OR IMPORT? ? OR IMPORTED OR IMPORTING -
                  OR IMPORTATION?)
S25      21966   S15:S17(3N)(SEND??? ? OR SENT OR TRANSMIS? OR TRANSMIT? OR
                  XFER? OR RECEIV? OR RECEPTION OR RECEIPT?)
S26      64949   S2:S6 OR S8:S14
S27       1804   S26(3N)(DUPLICAT? OR COPY? OR COPIES OR COPIED OR REPLICA?
                  OR REPRODUC? OR RECREAT? OR RECONSTRUCT?)
S28         29   S26(3N)(REGENERAT? OR CLONE? ? OR CLONING)
S29          1   S26(3N)RE()(PRODUC? OR CREAT? OR CONSTRUCT? OR GENERAT?)
S30         81   S27:S29 AND S22:S25
S31       3023   IC='G07F-007/10':IC='G07F-007/100'
S32       2405   IC='G06K-019/073':IC='G06K-019/0733'
S33      15376   IC='G06K-019/07':IC='G06K-019/071'
S34      33361   IC='G06K-017'
S35      26864   IC='B42D-015/10':IC='B42D-015/100'
S36      12143   IC='G09C-001/00':IC='G09C-001/004'
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S37      39526   IC='H04L-009'
S38      23242   IC='G06F-001/00':IC='G06F-001/016'
S39      20185   IC='G06F-012/14':IC='G06F-012/144'
S40         61   S30 AND S31:S39
S41         12   S30 AND S32:S33
S42         26   S30 AND S34:S35
S43         26   S30 AND S38:S39
S44         41   S41:S43
S45         41   IDPAT (sorted in duplicate/non-duplicate order)
S46         38   IDPAT (primary/non-duplicate records only)
? t46/9/4-5,8-9,12,15,17,37
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46/9/4 (Item 4 from file: 350)

014809037 **Image available**
WPI Acc No: 2002-629743/200268
XRPX Acc No: N02-497806

Integrated circuit card terminal unit in card issuing system, stores key taken out from original IC card, in backup card using card reader/writer by transmitting encoding key setting instruction to backup card

Patent Assignee: TOSHIBA KK (TOKE); NISHIMURA S (NISH-I)
Inventor: NISHIMURA S
Number of Countries: 028 Number of Patents: 003
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
EP 1233381	A2	20020821	EP 2001124531	A	20011012	200268 B
US 20020114468	A1	20020822	US 2001976050	A	20011015	200268
JP 2002245427	A	20020830	JP 200143630	A	20010220	200273

Priority Applications (No Type Date): JP 200143630 A 20010220
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
EP 1233381	A2	E	49	G07F-007/10	
	Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI TR				
US 20020114468	A1			H04L-009/00	
JP 2002245427	A		20	G06K-019/07	

Abstract (Basic): EP 1233381 A2

NOVELTY - A personal terminal unit (300) takes out a **key stored** in a original IC card (TC) using a card reader/writer (306a) by **transmitting** a **key** takeout instruction to the original IC card, and **stores** the **key** in a backup card using a card reader/writer (306b) by **transmitting** an encoding **key** setting instruction to the backup card.

DETAILED DESCRIPTION - INDEPENDENT CLAIMS are included for the following:

(1) **IC card duplication** method; and

(2) IC card processing system.

USE - Used in IC card issuing system.

ADVANTAGE - Generates a duplicate or backup card easily by safely **storing** a **key** taken out from the original IC card, in the backup card.

DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of the card processing system.

Personal terminal unit (300)

Card reader/writer (306a,306b)

pp; 49 DwgNo 13/31
Title Terms: INTEGRATE; CIRCUIT; CARD; TERMINAL; UNIT; CARD; ISSUE; SYSTEM; STORAGE; KEY; ORIGINAL; IC; CARD; CARD; CARD; READ; WRITING; TRANSMIT; ENCODE; KEY; SET; INSTRUCTION; CARD
Derwent Class: T04; T05
International Patent Class (Main): **G06K-019/07** ; G07F-007/10; H04L-009/00
International Patent Class (Additional): **B42D-015/10** ; **G06K-017/00** ; G06K-019/073 ; G09C-001/00; H04L-009/10
File Segment: EPI
Manual Codes (EPI/S-X): T04-K02; T05-H02C5C; T05-L03C5

46/9/5 (Item 5 from file: 350)
DIALOG(R)File 350:Derwent WPIX

014703997 **Image available**
WPI Acc No: 2002-524701/200256
XRPX Acc No: N02-415558

Memory system has recording circuit which records duplication log after duplicating key information, and limiting circuit which limits duplication for second time after recording duplication log

Patent Assignee: MEGACHIPS KK (MEGA-N)
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
JP 2002175218	A	20020621	JP 2000374265	A	20001208	200256	B

Priority Applications (No Type Date): JP 2000374265 A 20001208
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 2002175218	A		11	G06F-012/14	

Abstract (Basic): JP 2002175218 A

NOVELTY - The system has a first memory card (10) which **stores** **key** information, and a second memory card (20) which **stores** the duplicate of **key** information **copied** from **memory** **card** . The memory card (20) has a recording circuit which records a duplication log after duplicating the key information, and a limiting circuit which limits the duplication for second time after recording the duplication log.

DETAILED DESCRIPTION - The second memory card performs reading of the key information.

USE - Used for storing control information of predetermined apparatus.

ADVANTAGE - Offers a memory system which **duplicates** key information between **memory** **cards** and is not restrained by the number of slots of an apparatus. Prevents leakage of information and illegal copy of the key information.

DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of the memory system. (Drawing includes non-English language text)

First memory card (10)

Second memory card (20)

pp; 11 DwgNo 2/6

Title Terms: MEMORY; SYSTEM; RECORD; CIRCUIT; RECORD; DUPLICATE; LOG; AFTER ; DUPLICATE; KEY; INFORMATION; LIMIT; CIRCUIT; LIMIT; DUPLICATE; SECOND; TIME; AFTER; RECORD; DUPLICATE; LOG
Derwent Class: P36; T01; T04; T05; W01; W04
International Patent Class (Main): **G06F-012/14**
International Patent Class (Additional): A63F-013/00; G06F-003/06;

G06K-019/00; **G06K-019/07** ; H04L-009/08; H04L-009/10; H04L-009/32
File Segment: EPI; EngPI
Manual Codes (EPI/S-X): T01-C01; T01-H01C2; T04-K; T05-H05E; W01-A05A; W01-A05B; W04-X02A

46/9/8 (Item 8 from file: 350)
DIALOG(R)File 350:Derwent WPIX

013753452 **Image available**
WPI Acc No: 2001-237664/200125
XRPX Acc No: N01-169991

Prepaid card system generates encryption keys using each quantized data so as to decode characteristic data stored in variable information memory

Patent Assignee: NTT DATA TSUSHIN KK (NITE)
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
JP 2000259903	A	20000922	JP 9965772	A	19990312	200125	B

Priority Applications (No Type Date): JP 9965772 A 19990312
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 2000259903	A		31	G07F-007/08	

Abstract (Basic): JP 2000259903 A

NOVELTY - Two card information recorded in variable information memory (111) of **prepaid card** (100) is **reproduced** and quantized separately. Encryption keys are generated using each quantized data. The decoding of characteristic data stored in variable information memory (112) is performed by encryption keys of both quantized data separately. Based on both the decoding result, **duplicate prepaid card** is detected.

DETAILED DESCRIPTION - Two card information are recorded in variable information memory (111) of prepaid card. The two card information is reproduced. Based on one reproduced information, encryption key is generated. The other reproduced information is the characteristic data of prepaid card. The encryption of characteristic data is performed with encryption **key** and is **stored** in variable information memory (112). The encrypted characteristic data in memory (112) is finally decoded, to detect **duplicate copy** of **prepaid card** . INDEPENDENT CLAIMS are also included for the following:

(a) reading apparatus;
(b) card discrimination method

USE - For detecting **duplicate copy** of **prepaid card** .

ADVANTAGE - Since decoding process performed is compared, correctness of card is checked and **duplicate prepaid card** is detected exactly.

DESCRIPTION OF DRAWING(S) - The figure shows the diagram of prepaid card.

Prepaid card (100)
Variable information memories (111,112)
pp; 31 DwgNo 1/24

Title Terms: PREPAYMENT; CARD; SYSTEM; GENERATE; ENCRYPTION; KEY; DATA; SO; DECODE; CHARACTERISTIC; DATA; STORAGE; VARIABLE; INFORMATION; MEMORY
Derwent Class: T04; T05
International Patent Class (Main): G07F-007/08
International Patent Class (Additional): **G06K-017/00**
File Segment: EPI

Manual Codes (EPI/S-X): T04-A03A; T05-H02C3

46/9/9 (Item 9 from file: 350)
DIALOG(R)File 350:Derwent WPIX

012697781 **Image available**
WPI Acc No: 1999-503890/199942
XRPX Acc No: N99-376701
License issue system for CD-ROM, DVD - writes decoding key , frequency of duplication data stored in encrypted form on master card to user IC card and when copy is performed from user IC card , duplication dummy data is subtracted
Patent Assignee: NIPPON CHEMICON CORP (NIEM)
Number of Countries: 001 Number of Patents: 001
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
JP 11219291	A	19990810	JP 9835484	A	19980202	199942	B

Priority Applications (No Type Date): JP 9835484 A 19980202
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
JP 11219291	A		11	G06F-009/06	

Abstract (Basic): JP 11219291 A
NOVELTY - A master IC card (6) stores the decoding data and frequency of duplication data, which are written to the user IC card (8), in an encrypted form using common key data. Whenever a copy is performed using user **IC card** , the frequency of **duplication** data is subtracted.
USE - For preventing unauthorized usage of storage devices like CD-ROM, DVD which store licensed software.
ADVANTAGE - Prevents usage of decoding key by unauthorized personnel. Ensures high security. DESCRIPTION OF DRAWING(S) - The diagram shows the perspective view of license issue system. (6) Master IC card; (8) User IC card.
Dwg.1/7
Title Terms: LICENCE; ISSUE; SYSTEM; CD; ROM; WRITING; DECODE; KEY; FREQUENCY; DUPLICATE; DATA; STORAGE; ENCRYPTION; FORM; MASTER; CARD; USER ; IC; CARD; COPY; PERFORMANCE; USER; IC; CARD; DUPLICATE; DUMMY; DATA; SUBTRACT
Derwent Class: P85; T01; W01
International Patent Class (Main): G06F-009/06
International Patent Class (Additional): **G06F-012/14** ; G09C-001/00; H04L-009/10; H04L-009/32
File Segment: EPI; EngPI
Manual Codes (EPI/S-X): T01-F06; T01-H01C2; W01-A05A; W01-A05B

46/9/12 (Item 12 from file: 347)
DIALOG(R)File 347:JAPIO

07910363 **Image available**
ENCRYPTION SYSTEM UTILIZING IC CARD

PUB. NO.: 2004-023122 [JP 2004023122 A]
PUBLISHED: January 22, 2004 (20040122)
INVENTOR(s): ISHIDAIRA IKU
APPLICANT(s): DAINIPPON PRINTING CO LTD

APPL. NO.: 2002-171116 [JP 2002171116]
FILED: June 12, 2002 (20020612)
INTL CLASS: H04L-009/08; **B42D-015/10** ; G06K-019/10; G09C-001/00; H04L-009/32

ABSTRACT

PROBLEM TO BE SOLVED: To provide an encryption system adopting a generating method of an encryption key capable of securely restoring an original encryption key only with comparatively simple information stored by an owner of an IC card when the IC card **storing** the encryption **key** is missing in a system wherein the encryption of files in a personal computer is provided.
SOLUTION: The encryption system to solve the problem is configured such that the personal computer is provided with an encryption key generating means that generates the encryption key on the basis of a password designated by the owner of the IC card and code information recorded in advance in the IC card and records the encryption key in the IC card as the encryption key used by the owner of the IC card. Thus, even when the card owner loses the IC card, the owner designates the password the same as the password above for a new IC card recording the code information to restore the encryption key having been recorded in the missing IC card to the new **IC card** .

46/9/15 (Item 15 from file: 347)

07729711 **Image available**
METHOD OF CONTROLLING APPLICATION OF IC CARD

PUB. NO.: 2003-223613 [JP 2003223613 A]
PUBLISHED: August 08, 2003 (20030808)
INVENTOR(s): NAKAMURA SATOSHI
APPLICANT(s): DAINIPPON PRINTING CO LTD
APPL. NO.: 2002-019322 [JP 200219322]
FILED: January 29, 2002 (20020129)
INTL CLASS: **G06K-017/00** ; **B42D-015/10** ; **G06F-001/00** ; G06F-003/06; G06F-003/08; **G06K-019/07** ; G06K-019/10

ABSTRACT

PROBLEM TO BE SOLVED: To provide a method of controlling the application of an IC card capable of deleting, after use, the application allowed to use one time only, preventing the application from being used again, and capable of efficiently utilizing a memory.

SOLUTION: This method of controlling the application of the IC card comprises the steps of registering authentication data used for mutual authentications correspondingly with a **key** for **load** and a **key** for deletion before the IC card is issued, performing the first mutual authentication based on the **key** for **load** and the authentication data after the application and the **key** for **load** are inputted into the IC card, loading the application into the IC card, performing the second mutual authentication based on the key for deletion and t he authentication data after a first processing is performed by the IC card based on the loaded application, deleting the application from the IC card, and deleting

the key for deleting from the **IC card** .

46/9/17 (Item 17 from file: 347)
DIALOG(R)File 347:JAPIO

07616693 **Image available**
SYSTEM AND METHOD FOR DISTRIBUTING INFORMATION

PUB. NO.: 2003-110542 [JP 2003110542 A]
PUBLISHED: April 11, 2003 (20030411)
INVENTOR(s): MORIYOSHI KUNIHARU
NAKATSUKA SHIGEO
APPLICANT(s): MITSUBISHI ELECTRIC CORP
APPL. NO.: 2001-295092 [JP 2001295092]
FILED: September 26, 2001 (20010926)
INTL CLASS: H04L-009/08; **G06F-012/14** ; G06F-017/60; **G06K-017/00** ; H04L-009/10

ABSTRACT

PROBLEM TO BE SOLVED: To provide a device for acquiring copyright by enciphering contents and purchasing a decipher key for reproducing, a device for moving and charging the acquired copyright, and a measures of security for the decipher key for reproducing and the contents.

SOLUTION: The contents of music information or video information are enciphered and distributed and a key for deciphering these contents is stored on an IC card so that security can be improved. In the case of reproducing, the decipher key is extracted from the IC card and supplied to a program dedicated to contents **reproducing** . Two **IC cards storing** the decipher **key** are connected, the decipher key on one IC card can be moved to the other IC card. In this case, a charge for the copyright movement is collected.

46/9/37 (Item 37 from file: 347)
DIALOG(R)File 347:JAPIO

04205935 **Image available**
METHOD FOR PREVENTING **IC MEMORY CARD** FROM BEING **COPIED**

PUB. NO.: 05-197635 [JP 5197635 A]
PUBLISHED: August 06, 1993 (19930806)
INVENTOR(s): KADOOKA YOSHIMASA
ISHIZAKI MASAYUKI
SATO KAZUO
HAYAKAWA MARIKO
APPLICANT(s): FUJITSU LTD [000522] (A Japanese Company or Corporation), JP (Japan)
APPL. NO.: 04-009098 [JP 929098]
FILED: January 22, 1992 (19920122)
INTL CLASS: [5] **G06F-012/14** ; **G06K-017/00** ; **G06K-019/073**
JAPIO CLASS: 45.2 (INFORMATION PROCESSING -- Memory Units); 45.3

(INFORMATION PROCESSING -- Input Output Units)

JAPIO KEYWORD: R131 (INFORMATION PROCESSING -- Microcomputers & Microprocessers)

JOURNAL: Section: P, Section No. 1646, Vol. 17, No. 624, Pg. 28, November 17, 1993 (19931117)

ABSTRACT

PURPOSE: To prevent the contents of an IC memory card legally acquired by a certain user from being illegally **copied** to the own **IC memory card** of the third person concerning the copy preventing method for the IC memory card.

CONSTITUTION: First **key** information is **written** in a card attribute recording part 12 of an IC memory card 11, second **key** information is **written** in headers 14 of respective files in the file recording part 13. Even when the contents of the file recording part 13 are **copied** to another **IC memory card** 11', at read terminals 30A and 30B, read is not permitted unless fixed corresponding relation is established between the first and second key information.

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File 347:JAPIO Nov 1976-2005/Jan(Updated 050506)
         (c) 2005 JPO & JAPIO
File 350:Derwent WPIX 1963-2005/UD,UM &UP=200529
         (c) 2005  Thomson Derwent
File 348:EUROPEAN PATENTS 1978-2005/May W01
         (c) 2005 European Patent Office
File 349:PCT FULLTEXT 1979-2005/UB=20050505,UT=20050428
         (c) 2005 WIPO/Univentio
File 324:German Patents Fulltext 1967-200518
         (c) 2005 Univentio

Set     Items   Description
S1       5900   AU=NISHIMURA S?
S2       3508   SMARTCARD? OR CHIPCARD? OR INTELLIGENTCARD? OR ICCARD? ? OR
              MICROCHIPCARD? OR HYPRIDCARD? OR COMBICARD? OR MULTICARD?
S3        164   MEMOCARD? OR MEMORYCARD? OR UNIVERSALCARD?
S4        334   SMARTCHIP? OR SMART()CHIP? ?
S5       1021   DIGITAL()(PURSE? ? OR WALLET? ?) OR ELECTRONIC()PURSE? ?
S6       4500   ICC OR ICCS
S7     324925   CARD OR CARDS
S8       8888   (MULTIAPPLICATION? OR MULTI()APPLICATION? OR STORED()VALUE?
              ? OR PREPAID OR PRE()PAID OR EFTS OR DUAL()INTERFACE?)(1W)S7
S9         43   ELECTRONIC()FUND? ?()(TRANSFERR? OR TRANSFER??? ?)(1W)S7
S10      24617   SINGLE(1W)(INLINE OR LINE)(1W)(MEMORY? OR MEMORIES)(1W)MOD-
             ULE? ? OR SIM OR SIMS OR SIMM OR SIMMS
S11      58916   (SMART OR IC OR HYBRID OR INTEGRATED()CIRCUIT? OR INTELLIG-
             ENT OR PROCESS?R? ? OR MULTI OR MICROPROCESS?R? ?)(1W)S7
S12      12896   (MICROCHIP OR CONTACTLESS OR MEMO OR UNIVERSAL OR CONTACT -
             OR TWIN OR COMBI OR PROXIMITY OR VICINITY OR CHIP)(1W)S7
S13      31247   (TRANSACTION? ? OR MEMORY)(1W)S7
S14          2   TWINCARD? OR CONTACTCARD? OR TRANSACTIONCARD?
S15     519204   KEY? ? OR TOKEN? ?
S16      16489   (ENCRYPT? OR ENCIPHER? OR ENCYPHER? OR CRYPTO?)(1W)(DATA OR
              INFORMATION)
S17      13385   CIPHER? OR CYPHER?
S18      13171   S15:S17(3N)(DUPLICAT? OR COPY? OR COPIES OR COPIED OR REPL-
             ICAT? OR REPRODUC? OR REPLICA? OR RECREAT? OR RECONSTRUCT?)
S19       8660   S15:S17(3N)(RECORD? ? OR RECORDED OR RECORDING)
S20        636   S15:S17(3N)(REGENERAT? OR CLONE? ? OR CLONING)
S21         75   S15:S17(3N)RE()(PRODUC???? ? OR CREAT???? ? OR CONSTRUCT? -
             OR GENERAT???? ?)
S22      32326   S15:S17(3N)(WRITE? ? OR WRITTEN OR WROTE OR SAVE? ? OR SAV-
             ING OR STORAGE OR STORE OR STORES OR STORED OR STORING)
S23      17907   S15:S17(3N)(TRANSFERR? OR TRANSFER??? ? OR EXCHANG? OR UPL-
             OAD? OR DOWNLOAD? OR LOAD??? ? OR SWAP? OR ACQUIR? OR ACQUISI-
             TION?)
S24        861   S15:S17(3N)(EXPORT? OR IMPORT? ? OR IMPORTED OR IMPORTING -
             OR IMPORTATION?)
S25      48319   S15:S17(3N)(SEND??? ? OR SENT OR TRANSMIS? OR TRANSMIT? OR
             XFER? OR RECEIV? OR RECEPTION OR RECEIPT?)
S26      10402   (S2:S6 OR S8:S14)(20N)S15:S17
S27          8   S1 AND S26

 27/9/1     (Item 1 from file: 347)
DIALOG(R)File 347:JAPIO
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07376927    **Image available**
IC CARD, IC CARD TERMINAL DEVICE AND METHOD FOR DUPLICATING IC CARD

PUB. NO.:      2002-245427  [JP 2002245427  A]
```

PUBLISHED: August 30, 2002 (20020830)
INVENTOR(s): **NISHIMURA SAORI**
APPLICANT(s): TOSHIBA CORP
APPL. NO.: 2001-043630 [JP 200143630]
FILED: February 20, 2001 (20010220)
INTL CLASS: G06K-019/07; B42D-015/10; G06K-017/00; G09C-001/00; H04L-009/10

ABSTRACT

PROBLEM TO BE SOLVED: To provide an **IC card** from which a **key** for enciphering or decoding internally stored data can be safely fetched to the outside.

SOLUTION: This **IC card** has a decoding **key** for decoding data generated in the inside or set from the outside and an enciphering **key** for **ciphering** the data, enciphers the decoding **key** and the enciphering **key** by a plurality of different **keys** set in the **IC card** and subsequently transmits the enciphered decoding **key** and the enciphered enciphering **key** when a **key** fetch instruction for fetching the decoding **key** and the enciphering **key** in the **IC card** to the outside is inputted.

27/9/2 (Item 2 from file: 347)
DIALOG(R)File 347:JAPIO

07110600 **Image available**
DEVICE AND METHOD FOR ISSUING IC CARD

PUB. NO.: 2001-338267 [JP 2001338267 A]
PUBLISHED: December 07, 2001 (20011207)
INVENTOR(s): **NISHIMURA SAORI**
APPLICANT(s): TOSHIBA CORP
APPL. NO.: 2000-158970 [JP 2000158970]
FILED: May 29, 2000 (20000529)
INTL CLASS: G06K-017/00; B42D-015/10

ABSTRACT

PROBLEM TO BE SOLVED: To provide a device and a method for issuing IC card, by which confidential data which differ surely for each **IC** card, can be written on an IC **card** .

SOLUTION: A plurality of key data are stored in a **key** data file 10. A host computer 1 extracts the **key** data from among a **key** data group, stored in this **key** data file 10 and issues the **IC card** by writing these extracted **key** data via an issuing machine 12 to the data memory of the **IC card** 13. When the normal end of issue of the **IC card** is confirmed, the host computer 1 deletes the **key** data used for issuing that **IC card** , from the **key** data file 10.

27/9/3 (Item 1 from file: 350)
DIALOG(R)File 350:Derwent WPIX

014809037 **Image available**
WPI Acc No: 2002-629743/200268
XRPX Acc No: N02-497806
Integrated circuit card **terminal unit in card issuing system, stores** key **taken out from original** IC card **, in backup card using card reader/writer by transmitting encoding** key **setting instruction to backup card**
Patent Assignee: TOSHIBA KK (TOKE); NISHIMURA S (NISH-I)
Inventor: **NISHIMURA S**
Number of Countries: 028 Number of Patents: 003
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week	
EP 1233381	A2	20020821	EP 2001124531	A	20011012	200268	B
US 20020114468	A1	20020822	US 2001976050	A	20011015	200268	
JP 2002245427	A	20020830	JP 200143630	A	20010220	200273	

Priority Applications (No Type Date): JP 200143630 A 20010220
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
EP 1233381	A2	E	49	G07F-007/10	
US 20020114468	A1			H04L-009/00	
JP 2002245427	A		20	G06K-019/07	

Designated States (Regional): AL AT BE CH CY DE DK ES FI FR GB GR IE IT LI LT LU LV MC MK NL PT RO SE SI TR

Abstract (Basic): EP 1233381 A2
NOVELTY - A personal terminal unit (300) takes out a **key** stored in a original **IC card** (TC) using a card reader/writer (306a) by transmitting a **key** takeout instruction to the original **IC card**, and stores the **key** in a backup card using a card reader/writer (306b) by transmitting an encoding **key** setting instruction to the backup card.
DETAILED DESCRIPTION - INDEPENDENT CLAIMS are included for the following:
(1) IC card duplication method; and
(2) IC card processing system.
USE - Used in IC card issuing system.
ADVANTAGE - Generates a duplicate or backup card easily by safely storing a **key** taken out from the original **IC card**, in the backup card.
DESCRIPTION OF DRAWING(S) - The figure shows the block diagram of the card processing system.
Personal terminal unit (300)
Card reader/writer (306a,306b)
pp; 49 DwgNo 13/31
Title Terms: INTEGRATE; CIRCUIT; CARD; TERMINAL; UNIT; CARD; ISSUE; SYSTEM; STORAGE; KEY; ORIGINAL; IC; CARD; CARD; CARD; READ; WRITING; TRANSMIT; ENCODE; KEY; SET; INSTRUCTION; CARD
Derwent Class: T04; T05
International Patent Class (Main): G06K-019/07; G07F-007/10; H04L-009/00
International Patent Class (Additional): B42D-015/10; G06K-017/00; G06K-019/073; G09C-001/00; H04L-009/10
File Segment: EPI
Manual Codes (EPI/S-X): T04-K02; T05-H02C5C; T05-L03C5

27/9/4 (Item 2 from file: 350)
DIALOG(R)File 350:Derwent WPIX

013851362 **Image available**
WPI Acc No: 2001-335575/200135
XRPX Acc No: N01-242256
IC card **issuing system sending** key **setting command and** key **from system to card**
Patent Assignee: TOSHIBA KK (TOKE); NISHIMURA S (NISH-I)
Inventor: **NISHIMURA S**
Number of Countries: 011 Number of Patents: 005
Patent Family:

Patent No	Kind	Date	Applicat No	Kind	Date	Week
WO 200126046	A1	20010412	WO 99JP5388	A	19990930	200135 B
EP 1220148	A1	20020703	EP 99974074	A	19990930	200251
			WO 99JP5388	A	19990930	
US 20020134832	A1	20020926	WO 99JP5388	A	19990930	200265
			US 2002109047	A	20020329	
JP 2001528931	X	20030422	WO 99JP5388	A	19990930	200336
			JP 2001528931	A	19990930	
US 6585155	B2	20030701	WO 99JP5388	A	19990930	200345
			US 2002109047	A	20020329	

Priority Applications (No Type Date): WO 99JP5388 A 19990930
Patent Details:

Patent No	Kind	Lan	Pg	Main IPC	Filing Notes
WO 200126046	A1	J	42	G06K-017/00	
Designated States (National): JP US					
Designated States (Regional): DE FR GB					
EP 1220148	A1	E		G06K-017/00	Based on patent WO 200126046
Designated States (Regional): AL DE FR GB LT LV MK RO SI					
US 20020134832	A1			G06F-007/08	Cont of application WO 99JP5388
JP 2001528931	X			G06K-017/00	Based on patent WO 200126046
US 6585155	B2			G06F-007/08	Cont of application WO 99JP5388

Abstract (Basic): WO 200126046 A1
NOVELTY - The card issuing method sends a **key** setting command accompanied by a key from an IC **card** issuing device to an **IC card** , allowing the **IC card** to receive the **key** setting command and setting the **key** accompanying the **key** setting command in the **IC card** , sending a special **key** setting command accompanied by a **key** from the **IC card** issuing device to the **IC card** .
USE - IC card issuing system
DESCRIPTION OF DRAWING(S) - The figure (containing non-English Language text) shows IC card issuing method.
pp; 42 DwgNo 14/14
Title Terms: IC; CARD; ISSUE; SYSTEM; SEND; KEY; SET; COMMAND; KEY; SYSTEM; CARD
Derwent Class: T01; T04
International Patent Class (Main): G06F-007/08; G06K-017/00
International Patent Class (Additional): G06K-019/073; G06K-019/10
File Segment: EPI
Manual Codes (EPI/S-X): T01-D01; T01-H01B3A; T01-H01C2; T04-K

27/5/5 (Item 1 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS

01506586
IC card issuance system
Ausgabesystem fur IC-Karten
Systeme d'emission de cartes a puce

PATENT ASSIGNEE:
Kabushiki Kaisha Toshiba, (2077103), 1-1, Shibaura 1-chome, Minato-ku, Tokyo, (JP), (Applicant designated States: all)
INVENTOR:
Nishimura, Saori , c/o Kabushiki Kaisha Toshiba, Intell. Prop. Div., 1-1 Shibaura 1-chome Minato-ku Tokyo 105, (JP
LEGAL REPRESENTATIVE:
Kramer - Barske - Schmiedtchen (102191), European Patent Attorneys Patenta Radeckestrasse 43, 81245 Munchen, (DE)
PATENT (CC, No, Kind, Date): EP 1260944 A2 021127 (Basic)
EP 1260944 A3 031105
APPLICATION (CC, No, Date): EP 2001130682 011221;
PRIORITY (CC, No, Date): JP 2001143529 010514
DESIGNATED STATES: DE; FR; GB
EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI
INTERNATIONAL PATENT CLASS: G07F-007/10
ABSTRACT EP 1260944 A2

The present invention provides an IC card issuance system (200, 205) that issues an IC card by writing issuance data including an ID specific to the IC card into a memory of the IC card, wherein, when reissuing an IC card identical to an issued IC card, an ID of an IC card to be reissued is read out from the IC card. A record having an ID that corresponds to the read out ID is retrieved and output from an issuance file (F11) having stored issuance data of the issued IC card therein, and reissuing of the IC card is based on the output record (issuance data).

ABSTRACT WORD COUNT: 109
NOTE:
Figure number on first page: 1

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application:	021127	A2 Published application without search report
Examination:	021127	A2 Date of request for examination: 20011221
Search Report:	031105	A3 Separate publication of the search report
Change:	040428	A2 Legal representative(s) changed 20040310

LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200248	1055
SPEC A	(English)	200248	8999
Total word count - document A			10054
Total word count - document B			0
Total word count - documents A + B			10054

27/5/6 (Item 2 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS

01444291
IC card terminal unit and IC card duplication method
Chipkartenterminal und Chipkartendupliziererverfahren
Terminal pour cartes a puce et methode pour la duplication de cartes a puce
PATENT ASSIGNEE:
Kabushiki Kaisha Toshiba, (2077103), 1-1, Shibaura 1-chome, Minato-ku, Tokyo, (JP), (Applicant designated States: all)
INVENTOR:
Nishimura, Saori , Intel. Propt. Div., K. K. Toshiba, 1-1-Shibaura, 1-chome, Minato-ku, Tokyo 105-8001, (JP
LEGAL REPRESENTATIVE:
Kramer - Barske - Schmiedtchen (102191), European Patent Attorneys Patenta Radeckestrasse 43, 81245 Munchen, (DE)

PATENT (CC, No, Kind, Date): EP 1233381 A2 020821 (Basic)
EP 1233381 A3 030319
APPLICATION (CC, No, Date): EP 2001124531 011012;
PRIORITY (CC, No, Date): JP 200143630 010220
DESIGNATED STATES: DE; FR; GB
EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI
INTERNATIONAL PATENT CLASS: G07F-007/10; G06K-019/073
ABSTRACT EP 1233381 A2

In the case of an **IC card** having a decoding **key** for decoding data and an encoding **key** for encoding the data which are generated inside or set by an external unit, when a **key** takeout instruction for taking out the decoding **key** and encoding **key** in the **IC card** to an external unit is input, the decoding **key** and encoding **key** are encoded by a plurality of other **keys** set in the **IC card** and then transmitted to an external unit.

ABSTRACT WORD COUNT: 83
NOTE:
Figure number on first page: 13

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application:	020821 A2	Published application without search report
Examination:	020821 A2	Date of request for examination: 20011012
Search Report:	030319 A3	Separate publication of the search report
Examination:	040407 A2	Date of dispatch of the first examination report: 20040220
Change:	040428 A2	Legal representative(s) changed 20040310

LANGUAGE (Publication,Procedural,Application): English; English; English
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200234	1584
SPEC A	(English)	200234	9639
Total word count - document A			11223
Total word count - document B			0
Total word count - documents A + B			11223

27/5/7 (Item 3 from file: 348)
DIALOG(R)File 348:EUROPEAN PATENTS

01288200
IC CARD, IC CARD ISSUING DEVICE, IC CARD ISSUING SYSTEM, AND IC CARD ISSUING METHOD
CHIPKARTE UND VORRICHTUNG, SYSTEM UND VERFAHREN ZU IHRER AUSGABE
CARTE A MICROCIRCUIT, ET DISPOSITIF, SYSTEME ET PROCEDE DE PRODUCTION DE CARTES A MICROCIRCUIT
PATENT ASSIGNEE:
Kabushiki Kaisha Toshiba, (213134), 1-1, Shibaura 1-chome, Minato-ku, Tokyo 105, (JP), (Applicant designated States: all)
INVENTOR:
NISHIMURA, Saori , 70, Yanagicho, Saiwai-ku, Kawasaki-shi, Kanagawa 210-85, (JP
LEGAL REPRESENTATIVE:
Kramer - Barske - Schmiedtchen (102191), European Patent Attorneys Patenta Radeckestrasse 43, 81245 Munchen, (DE)
PATENT (CC, No, Kind, Date): EP 1220148 A1 020703 (Basic)
WO 200126046 010412
APPLICATION (CC, No, Date): EP 99974074 990930; WO 99JP5388 990930
DESIGNATED STATES: DE; FR; GB
EXTENDED DESIGNATED STATES: AL; LT; LV; MK; RO; SI

INTERNATIONAL PATENT CLASS: G06K-017/00; G06K-019/073

ABSTRACT EP 1220148 A1
An **IC** card issuing apparatus sends a key setting command accompanied with a key to an IC card. The IC card receives the key setting command and the key accompanying the key setting command is set to the IC card. The IC card issuing apparatus sends a special key setting command accompanied with a key to the IC card. The IC card receives the special key setting command and the key accompanying the key setting command is set to the IC card. Further, a set **key** process result is generated based on all **keys** set to the **IC card** . The **IC card** sends the set **key** process result to the **IC card** issuing apparatus. The **IC card** issuing apparatus receives the set **key** process result, and confirms whether a normal **key** is set to the **IC card** based on the set **key** process result.
ABSTRACT WORD COUNT: 145
NOTE:
Figure number on first page: 014

LEGAL STATUS (Type, Pub Date, Kind, Text):

Application:	010606	A1	International application. (Art. 158(1))
Application:	010606	A1	International application entering European phase
Application:	020703	A1	Published application with search report
Examination:	020703	A1	Date of request for examination: 20020416
Search Report:	030205	A1	Date of drawing up and dispatch of supplementary:search report 20021220
Change:	030205	A1	International Patent Classification changed: 20021217
Change:	030205	A1	International Patent Classification changed: 20021217
Examination:	031029	A1	Date of dispatch of the first examination report: 20030916
Change:	040428	A1	Legal representative(s) changed 20040310

LANGUAGE (Publication,Procedural,Application): English; English; Japanese
FULLTEXT AVAILABILITY:

Available Text	Language	Update	Word Count
CLAIMS A	(English)	200227	1743
SPEC A	(English)	200227	6322
Total word count - document A			8065
Total word count - document B			0
Total word count - documents A + B			8065

27/5/8 (Item 1 from file: 349)
DIALOG(R)File 349:PCT FULLTEXT

00792526 **Image available**
IC CARD, IC CARD ISSUING DEVICE, IC CARD ISSUING SYSTEM, AND IC CARD ISSUING METHOD
CARTE A MICROCIRCUIT, ET DISPOSITIF, SYSTEME ET PROCEDE DE PRODUCTION DE CARTES A MICROCIRCUIT
Patent Applicant/Assignee:
KABUSHIKI KAISHA TOSHIBA, 72, Horikawa-cho, Saiwai-ku, Kawasaki-shi, Kanagawa 210-8572, JP, JP (Residence), JP (Nationality), (For all designated states except: US)
Patent Applicant/Inventor:
NISHIMURA Saori , 70, Yanagicho, Saiwai-ku, Kawasaki-shi, Kanagawa 210-8501, JP, JP (Residence), JP (Nationality), (Designated only for:

US
Legal Representative:
SUZUYE Takehiko (et al) (agent), Suzuye & Suzuye, 7-2, Kasumigaseki 3-chome, Chiyoda-ku, Tokyo 100-0013, JP,
Patent and Priority Information (Country, Number, Date):
Patent: WO 200126046 A1 20010412 (WO 0126046)
Application: WO 99JP5388 19990930 (PCT/WO JP9905388)
Priority Application: WO 99JP5388 19990930
Designated States:
(Protection type is "patent" unless otherwise stated - for applications prior to 2004)
JP US
(EP) DE FR GB
Main International Patent Class: G06K-017/00
International Patent Class: G06K-019/073
Publication Language: Japanese
Filing Language: Japanese

English Abstract
An **IC** card issuing method characterized by comprising sending a key setting command accompanied by a key from an IC card issuing device to an IC card, allowing the IC card to receive the key setting command and setting the key accompanying the key setting command in the IC card, sending a special key setting command accompanied by a key from the IC card issuing device to the IC card, allowing the IC card to receive the special key setting command and setting the key accompanying the special **key** setting command in the **IC card**, generating the results of the set **key** processing based on all the **keys** set in the **IC card**, sending the results from the **IC card** to the **IC card** issuing device, allowing the **IC card** issuing device to receive the results, and confirming whether or not a regular **key** is set in the **IC card** based on the results.

French Abstract
L'invention concerne un procede de production de cartes a microcircuit caracterise en ce qu'il consiste a envoyer un ordre de definition de clef accompagne d'une clef d'un dispositif de production de cartes a microcircuit a une carte a microcircuit, a autoriser la reception, par la carte a microcircuit, de l'ordre de definition de clef et a definir la clef accompagnant l'ordre de definition de clef au niveau de la carte a microcircuit, a envoyer un ordre de definition de clef special accompagne d'un clef du dispositif de production de cartes a microcircuit a la carte a microcircuit, a autoriser la reception, par la carte a microcircuit, de l'ordre de definition de clef special et a definir la clef accompagnant l'ordre de definition de clef special au niveau de la carte a microcircuit, a generer les resultats du traitement de la clef definie sur la base de toutes les clefs definies dans la carte a microcircuit, a envoyer ces resultats de la carte a microcircuit au dispositif de production de cartes a microcircuit, a autoriser la reception des resultats par le dispositif de production de cartes a microcircuit, et a confirmer, sur la base de ces resultats, si une clef standard est definie dans la carte a microcircuit.
Legal Status (Type, Date, Text)
Publication 20010412 A1 With international search report.
Examination 20010510 Request for preliminary examination prior to end of 19th month from priority date
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